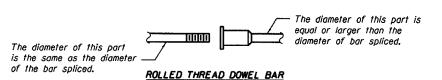
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



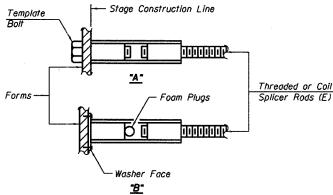
** ONE PIECE

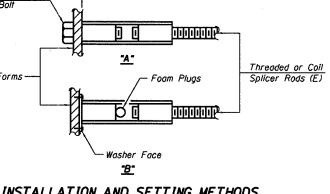
- Wire Connector

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C. D or DH may be used.





- Stage Construction Line Stage I Construction Stage II Construction Threaded or Coil Threaded or Coil Reinforcement Reinforcement Loop Couplers (E) Splicer Rods (E) Bars

STANDARD

Bar Size	No. Assemblies Required	Location			
#4	82	Wearing Surface			

BAR SPLICER ASSEMBLY DETAILS ILL. ROUTE 34 OVER PINHOOK CREEK F.A.P. ROUTE 778 SECTION 3BR-1 HARDIN COUNTY STATION 806 + 15.00 STRUCTURE NO. 035-0005

1014 PART

24

69

COUNTY

HARDIN

ROUTE NO.

F.A.P. 778

NOTES Bar splicer assemblies shall be of an approved type and shall develop in tension at least

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

Other systems of similar design may be submitted to the Engineer for approval. Approval

shall be based on certified test results from an approved testing laboratory that the proposed

BAR SPLICER ASSEMBLIES

kins - tensior

14.7

23.0

33.1

45.1

58.9

75.0

95.0

117.4

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

Minimum *Pull-out Strength = 0.66 x fy x A₁

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

Splicer Rod or

Dowel Bar Length

1'-8"

2'-0"

2'-7"

3'-5"

4'-6"

5'-9"

7'-3"

9'-0"

125 percent of the yield strength of the lapped reinforcement bars.

bar splicer assembly satisfies the following requirements:

Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_1$

reinforcement bars.

1

Bar Size to

be Spliced

#4

#5

#6

#7 #8

#9

#10

#11

38R-1

Strength Requirements

Min. Capacity Min. Pull-Out Strength

kips - tension

7.9

12.3

17.4

23.8

31.3

39.6

50.3

61.8

Contract #78023

SHEET NO. 14

14 SHEETS

Bridge Deck Approach Slab Threaded or Coil Splicer Rods (E) Reinforcement Threaded or Coil Loop Couplers (E) Bars 4'-0" 6'-0"

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS



	Bar	Splicer	for	#5	bar		
Min. Capacity = 23.0 kips - tension							
Min.	Pull-out	Strength	=]	12.3	kips	-	tension
No.	Required	= 0					

DESIGNED	RLM		
CHECKED	MEL		
DRAWN	AEC		
CHECKED	RLM		
BSD-1			

11-1-06

